

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently amended) A three-dimensional image display method comprising:

detecting directions of incident light emitted from a light source at a plurality of detectors;

detecting calculating a position of [[a]] the light source existing in real space based on the detected directions;

comparing the position of the light source and a virtual position of a display object in a three-dimensional image displayed in real space to obtain a relative positional relation therebetween shadow for applying to the display object from a direction of the light source, the shadow being caused by the light source; and

shading in displaying the three-dimensional image with the shadow.

2. (Currently amended) The method according to claim 1, further comprising:

detecting lightness of the light source at the detectors.

3. (Currently amended) A three-dimensional image display method comprising:

detecting directions of incident light emitted from a plurality of light sources at a plurality of detectors;

detecting calculating positions of ~~[[a]]~~ the plurality of light sources existing in real space based on the detected directions;

comparing each of the positions of the light sources and a virtual position of a display object in a three-dimensional image displayed in real space to obtain ~~relative-positional-relations-therebetween~~ shadows for applying to the display object from directions of the light sources, the shadows being caused by the light sources; and ~~shading in displaying~~ the three-dimensional image with the shadows.

4. (Currently amended) The method according to claim 3, further comprising:

obtaining a position of a single virtual light source, which represents the plurality of light sources; and

comparing the position of the virtual light source and the virtual position of the display object in the three-dimensional image to obtain ~~the relative-positional-relations-therebetween~~ a virtual shadow for applying to the display object from a direction of the single virtual light source, the virtual shadow being caused by the single virtual light source.

5. (Currently amended) A three-dimensional image display device comprising:

a plurality of direction detectors, each of the detectors detecting a direction of incident light emitted from a light source;

a position detector which detects a position of ~~[[a]]~~ the light source existing in real space based on the detected directions;

an image process unit configured to compare the position of the light source and a virtual position of a display object in a three-dimensional image displayed in real space to obtain a ~~relative-positional-relation therebetween~~ a shadow for applying to the display object from a direction of the light source, the shadow being caused by the light source, and to shade in the three-dimensional image.

6. (Canceled)

7. (Currently amended) The device according to claim 5, further comprising:
a display surface configured to display the three-dimensional image, wherein:
the ~~detector is~~ direction detectors are disposed on at least one of the display surface and a surface adjacent to the display surface.

8. (Currently amended) The device according to claim 5, further comprising:
a display surface configured to display the three-dimensional image, wherein:
the ~~detector is~~ direction detectors are disposed to be adjacent to the display surface.

9. (Currently amended) The device according to claim 5, wherein the
~~detector is~~ direction detectors are disposed at a position where the ~~detector detects~~
direction detectors detect the light emitted from the light source located in the same
direction as at least one of a display direction of the three dimensional image and a
direction in which the three-dimensional image is observed.

10. (Currently amended) The device according to claim 5, wherein:

each of the detector includes direction detectors include three-primary colors
detection unit that adds colors to the shade.

11–15. (Canceled)